



Water-Data Report 2011

02290878 BROAD RIVER NEAR THE CUTOFF, FL

Southern Florida Basin
Everglades Subbasin

LOCATION.--Lat 25°30'05", long 81°04'37" referenced to North American Datum of 1983, in T.56 S., R.32 E., Monroe County, FL, Hydrologic Unit 03090202, Big Lostman's Bay Quadrangle, located on left bank of Broad River between Broad River Bay and the Cutoff, 27 mi north of Flamingo.

DRAINAGE AREA.--Indeterminate.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--February 2001 to current year.

REVISED RECORDS.--WDR FL-2005-2A, 2001-2004.

GAGE.--Satellite data collection platform with water-stage shaft encoder and acoustic Doppler velocity meter. Datum of gage is North American Vertical Datum of 1988 (NAVD 88).

REMARKS.--Records good, except those of estimated daily discharges, which are poor. Streamflow at this site is significantly affected by astronomical tides. Daily mean discharge was computed from filtered unit value discharge data. The Godin low-pass filter to remove principal tidal frequencies from unit values. Positive discharge is generally to the southwest and negative discharge to the northeast. Discharge and gage-height 15 minutes data are available in the files of the U.S. Geological Survey. Data can also be accessed online at <http://sofia.usgs.gov/nwis>. Daily values of discharge and gage height are available online at <http://waterdata.usgs.gov/nwis>.

EXTREMES FOR PERIOD OF RECORD.--

DISCHARGE: Maximum positive discharge (unfiltered), 6,290 ft³/s Sept. 28, 2008; maximum negative (unfiltered), 11,500 ft³/s Oct. 24, 2005.

GAGE HEIGHT: Maximum gage height, 1.80 ft Oct. 24, 2005; minimum, -2.68 ft Jan. 4, 2008.

EXTREMES FOR CURRENT YEAR.--

DISCHARGE: Maximum positive discharge (unfiltered), 5,380 ft³/s Oct. 10; maximum negative (unfiltered), 5,310 ft³/s Apr. 5.

GAGE HEIGHT: Maximum gage height, 0.81 ft Oct. 10, Aug. 29; minimum gage height, -2.49 ft Jan. 14.

02290878 BROAD RIVER NEAR THE CUTOFF, FL—Continued
GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

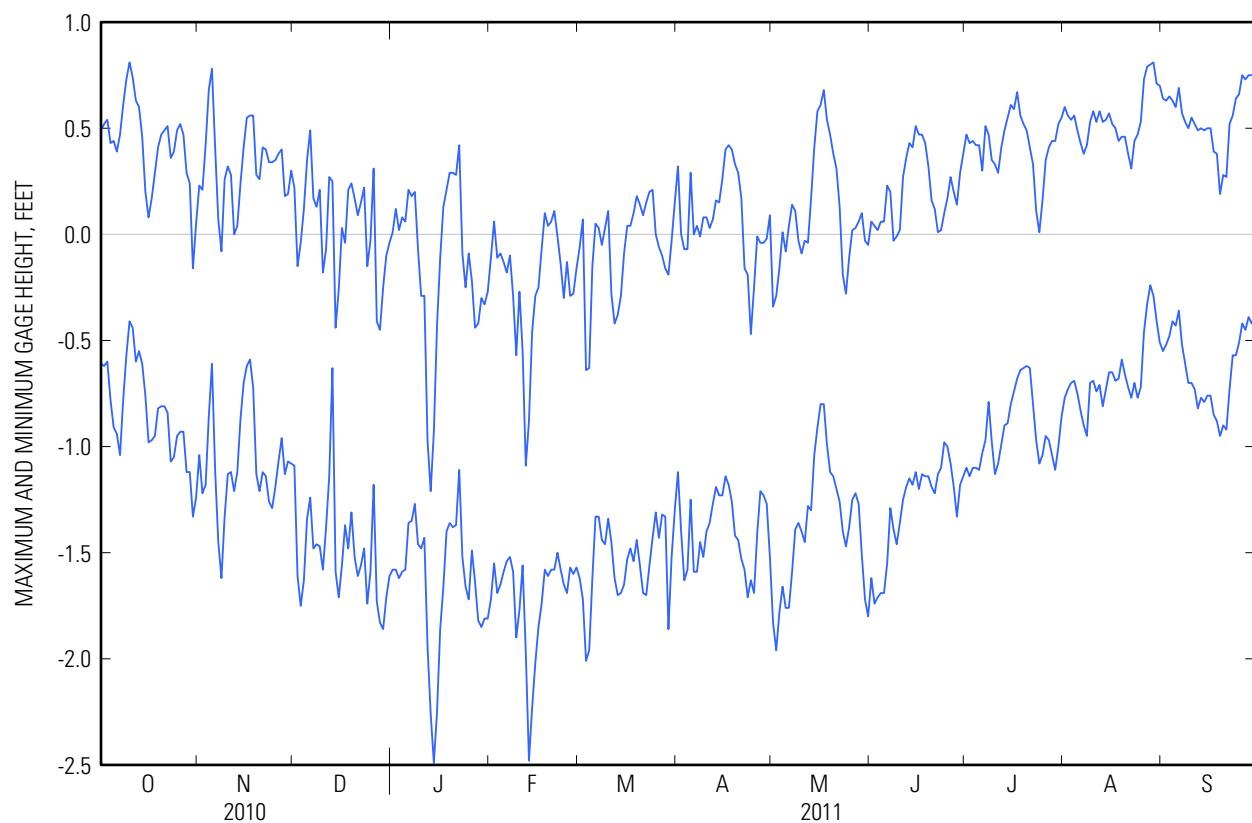
Day	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min
	October		November		December		January		February		March	
1	0.49	-0.61	0.23	-1.04	0.22	-1.09	0.01	-1.58	-0.11	-1.72	-0.06	-1.62
2	0.52	-0.62	0.21	-1.22	-0.15	-1.61	0.12	-1.58	0.06	-1.55	0.07	-1.72
3	0.54	-0.60	0.42	-1.18	-0.04	-1.75	0.02	-1.62	-0.11	-1.69	-0.64	-2.01
4	0.43	-0.78	0.68	-0.86	0.12	-1.63	0.08	-1.59	-0.09	-1.65	-0.63	-1.96
5	0.44	-0.91	0.78	-0.61	0.35	-1.34	0.06	-1.58	-0.13	-1.59	-0.15	-1.62
6	0.39	-0.94	0.41	-1.11	0.49	-1.24	0.21	-1.36	-0.18	-1.54	0.05	-1.33
7	0.47	-1.04	0.07	-1.45	0.17	-1.48	0.18	-1.35	-0.10	-1.52	0.03	-1.33
8	0.61	-0.78	-0.08	-1.62	0.13	-1.46	0.20	-1.27	-0.29	-1.59	-0.05	-1.44
9	0.73	-0.57	0.26	-1.33	0.21	-1.47	-0.07	-1.46	-0.57	-1.90	0.03	-1.46
10	0.81	-0.41	0.32	-1.13	-0.18	-1.58	-0.29	-1.48	-0.27	-1.77	0.11	-1.34
11	0.74	-0.44	0.28	-1.12	-0.07	-1.38	-0.29	-1.43	-0.55	-1.56	-0.28	-1.45
12	0.63	-0.60	0.00	-1.21	0.27	-1.14	-0.97	-1.94	-1.09	-1.97	-0.42	-1.62
13	0.60	-0.55	0.04	-1.12	0.25	-0.63	-1.21	-2.26	-0.88	-2.48	-0.38	-1.70
14	0.46	-0.61	0.24	-0.87	-0.44	-1.59	-0.93	-2.49	-0.46	-2.23	-0.29	-1.69
15	0.20	-0.76	0.41	-0.70	-0.26	-1.71	-0.43	-2.25	-0.29	-2.02	-0.09	-1.65
16	0.08	-0.98	0.55	-0.62	0.03	-1.56	-0.11	-1.86	-0.25	-1.85	0.04	-1.53
17	0.17	-0.97	0.56	-0.59	-0.04	-1.37	0.13	-1.66	-0.07	-1.74	0.04	-1.48
18	0.29	-0.95	0.56	-0.72	0.21	-1.48	0.21	-1.40	0.10	-1.58	0.10	-1.54
19	0.41	-0.82	0.28	-1.13	0.24	-1.31	0.29	-1.36	0.04	-1.61	0.18	-1.44
20	0.47	-0.81	0.26	-1.21	0.17	-1.52	0.29	-1.38	0.06	-1.58	0.14	-1.56
21	0.49	-0.81	0.41	-1.12	0.09	-1.61	0.28	-1.37	0.11	-1.58	0.09	-1.69
22	0.51	-0.84	0.40	-1.14	0.15	-1.56	0.42	-1.11	-0.01	-1.50	0.15	-1.70
23	0.36	-1.07	0.34	-1.26	0.22	-1.48	-0.09	-1.52	-0.14	-1.58	0.20	-1.56
24	0.39	-1.05	0.34	-1.29	-0.15	-1.74	-0.25	-1.66	-0.30	-1.65	0.21	-1.43
25	0.49	-0.95	0.35	-1.19	-0.03	-1.59	-0.09	-1.72	-0.13	-1.69	0.00	-1.31
26	0.52	-0.93	0.38	-1.07	0.31	-1.18	-0.22	-1.49	-0.29	-1.57	-0.06	-1.43
27	0.47	-0.93	0.40	-0.96	-0.41	-1.73	-0.44	-1.64	-0.28	-1.60	-0.10	-1.32
28	0.29	-1.12	0.18	-1.13	-0.45	-1.83	-0.42	-1.82	-0.16	-1.57	-0.16	-1.33
29	0.24	-1.12	0.19	-1.07	-0.25	-1.86	-0.30	-1.85	---	---	-0.19	-1.86
30	-0.16	-1.33	0.30	-1.08	-0.10	-1.71	-0.33	-1.81	---	---	-0.03	-1.52
31	0.05	-1.24	---	---	-0.04	-1.61	-0.27	-1.81	---	---	0.15	-1.30
Month	0.81	-1.33	0.78	-1.62	0.49	-1.86	0.42	-2.49	0.11	-2.48	0.21	-2.01

02290878 BROAD RIVER NEAR THE CUTOFF, FL—Continued
GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

Day	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min
	April		May		June		July		August		September	
1	0.32	-1.12	-0.34	-1.83	0.06	-1.62	0.47	-1.10	0.60	-0.77	0.64	-0.55
2	0.00	-1.40	-0.29	-1.96	0.04	-1.74	0.43	-1.14	0.56	-0.73	0.63	-0.52
3	-0.07	-1.63	-0.16	-1.78	0.02	-1.71	0.44	-1.10	0.54	-0.70	0.65	-0.48
4	-0.07	-1.58	0.01	-1.66	0.06	-1.69	0.42	-1.10	0.56	-0.69	0.63	-0.41
5	0.29	-1.25	-0.08	-1.76	0.06	-1.69	0.42	-1.11	0.49	-0.75	0.60	-0.43
6	0.00	-1.59	0.04	-1.76	0.23	-1.55	0.30	-1.03	0.43	-0.83	0.69	-0.36
7	0.04	-1.59	0.14	-1.59	0.20	-1.29	0.51	-0.97	0.38	-0.90	0.57	-0.52
8	-0.01	-1.45	0.11	-1.39	-0.03	-1.39	0.47	-0.79	0.42	-0.95	0.53	-0.61
9	0.08	-1.52	-0.03	-1.36	-0.01	-1.46	0.35	-0.98	0.53	-0.70	0.50	-0.70
10	0.08	-1.40	-0.09	-1.40	0.02	-1.36	0.33	-1.13	0.58	-0.69	0.55	-0.70
11	0.03	-1.36	-0.03	-1.45	0.27	-1.25	0.29	-1.08	0.53	-0.74	0.52	-0.73
12	0.07	-1.27	-0.04	-1.28	0.36	-1.19	0.41	-0.99	0.58	-0.71	0.49	-0.82
13	0.16	-1.19	0.17	-1.30	0.43	-1.15	0.49	-0.90	0.53	-0.81	0.50	-0.77
14	0.15	-1.23	0.41	-1.04	0.41	-1.18	0.55	-0.89	0.54	-0.73	0.49	-0.79
15	0.26	-1.23	0.58	-0.91	0.51	-1.12	0.61	-0.80	0.57	-0.65	0.50	-0.76
16	0.40	-1.14	0.61	-0.80	0.47	-1.20	0.59	-0.74	0.52	-0.65	0.50	-0.76
17	0.42	-1.18	0.68	-0.80	0.47	-1.13	0.67	-0.68	0.50	-0.69	0.39	-0.85
18	0.40	-1.26	0.54	-0.99	0.43	-1.14	0.56	-0.64	0.44	-0.68	0.38	-0.88
19	0.33	-1.42	0.47	-1.12	0.32	-1.14	0.52	-0.63	0.46	-0.59	0.19	-0.95
20	0.29	-1.44	0.38	-1.14	0.16	-1.19	0.49	-0.62	0.46	-0.66	0.28	-0.90
21	0.17	-1.53	0.31	-1.20	0.12	-1.22	0.41	-0.63	0.38	-0.72	0.27	-0.92
22	-0.16	-1.58	0.13	-1.26	0.01	-1.13	0.33	-0.80	0.31	-0.77	0.52	-0.73
23	-0.19	-1.71	-0.19	-1.40	0.02	-1.10	0.11	-0.97	0.44	-0.70	0.56	-0.57
24	-0.47	-1.63	-0.28	-1.47	0.10	-0.98	0.01	-1.08	0.47	-0.77	0.64	-0.57
25	-0.25	-1.69	-0.11	-1.38	0.17	-1.00	0.16	-1.04	0.53	-0.72	0.66	-0.51
26	-0.01	-1.41	0.02	-1.25	0.27	-1.08	0.35	-0.95	0.73	-0.46	0.75	-0.42
27	-0.04	-1.21	0.03	-1.22	0.20	-1.19	0.41	-0.97	0.79	-0.33	0.73	-0.45
28	-0.04	-1.23	0.06	-1.27	0.14	-1.33	0.44	-1.04	0.80	-0.24	0.75	-0.39
29	-0.02	-1.27	0.10	-1.51	0.29	-1.18	0.44	-1.11	0.81	-0.29	0.75	-0.42
30	0.09	-1.52	-0.03	-1.72	0.38	-1.14	0.52	-1.00	0.71	-0.41	0.75	-0.38
31	---	---	-0.05	-1.80	---	---	0.55	-0.86	0.70	-0.51	---	---
Month	0.42	-1.71	0.68	-1.96	0.51	-1.74	0.67	-1.14	0.81	-0.95	0.75	-0.95

	Max	Min
Year	0.81	-2.49

02290878 BROAD RIVER NEAR THE CUTOFF, FL—Continued



Water-Data Report 2011

02290878 BROAD RIVER NEAR THE CUTOFF, FL—Continued

DISCHARGE, TIDALLY FILTERED, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
DAILY MEAN VALUES

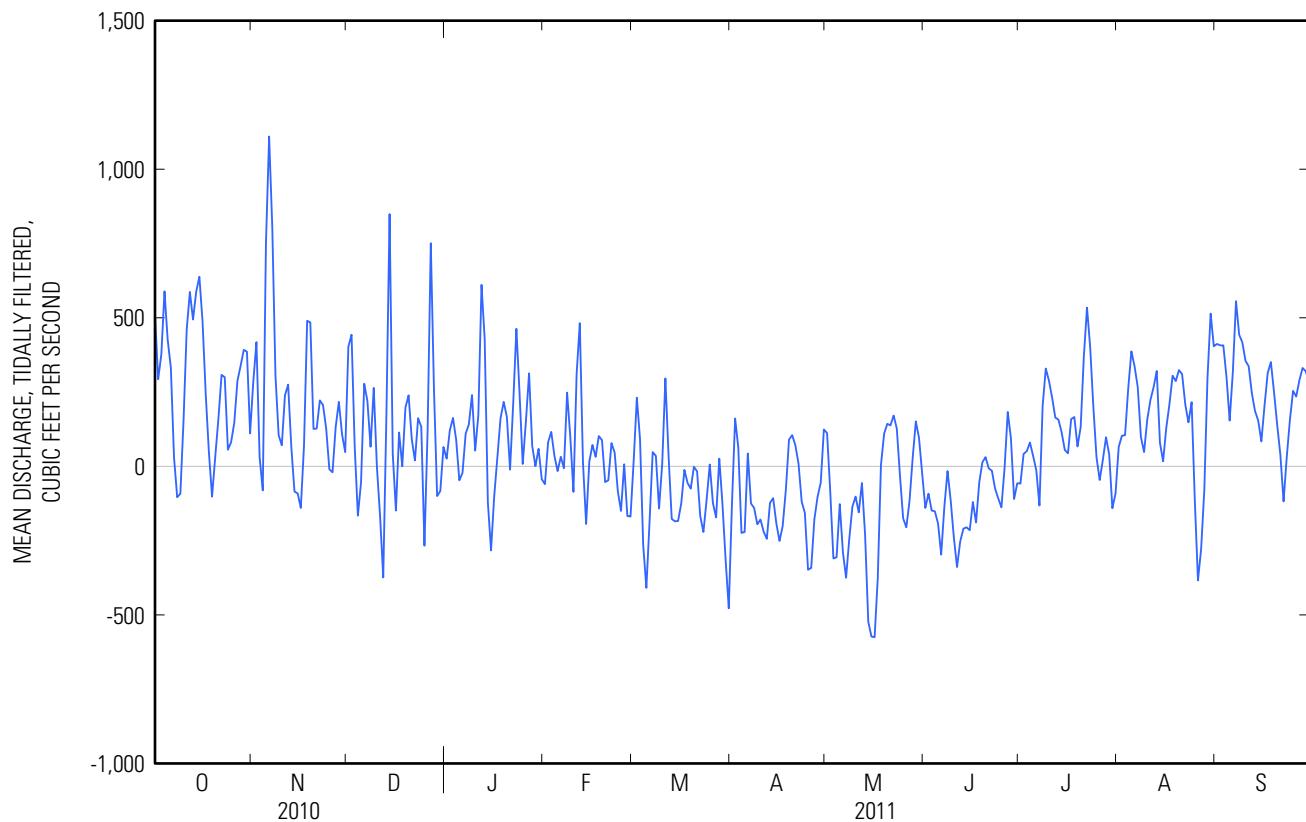
Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	509	284	403	26	-60	19	-126	112	-140	-58	65	412
2	293	418	443	121	81	231	161	-84	-92	42	103	407
3	377	31	65	163	116	91	63	-310	-149	51	105	407
4	589	-81	-166	90	35	-265	-224	-306	-151	80	262	301
5	426	751	-53	-47	-16	-409	-221	-127	-192	35	387	154
6	332	1,110	278	-22	32	-188	43	-289	-297	-13	337	317
7	30	804	220	110	-6.4	48	-125	-375	-136	-132	267	556
8	-104	306	66	141	248	35	-140	-245	-16	203	99	443
9	-92	105	264	240	100	-142	-195	-135	-115	329	48	417
10	154	71	-1.1	53	-86	9.1	-179	-102	-240	288	157	355
11	460	239	-168	173	311	296	-220	-155	-339	231	223	337
12	587	275	-374	611	482	36	-244	-56	-253	164	266	246
13	494	65	175	428	13	-177	-123	-231	-210	157	321	186
14	588	-85	849	-121	-194	-185	-107	-523	-205	114	80	154
15	638	-91	41	-283	16	-184	-192	-573	-215	55	17	84
16	487	-140	-149	-101	72	-125	-251	-575	-120	44	129	205
17	243	69	114	30	32	-12	-201	-375	-189	159	209	314
18	48	490	0.22	162	102	-56	-79	4.4	-55	166	305	351
19	-102	484	198	217	88	-75	90	110	14	67	287	249
20	32	126	239	166	-53	-1.4	105	143	31	132	324	139
21	160	127	91	-11	-47	-17	71	138	-6.8	370	310	38
22	308	222	20	212	78	-168	8.7	171	-15	534	208	-118
23	300	206	162	463	46	-221	-119	127	-75	401	148	30
24	56	127	133	245	-84	-113	-157	-32	-108	200	216	156
25	81	-10	-267	8.0	-150	6.2	-348	-175	-138	30	-113	254
26	146	-20	123	151	7.0	-124	-342	-205	-5.2	-46	-384	235
27	287	133	751	313	-167	-172	-178	-118	183	22	-278	290
28	338	217	259	68	-169	26	-103	27	94	98	-80	331
29	392	108	-100	0.71	---	-126	-55	151	-110	40	297	320
30	386	48	-83	59	---	-315	124	96	-57	-141	514	284
31	111	---	65	-43	---	-478	---	-24	---	-91	404	---
Total	8,554	6,389	3,598.12	3,622.71	826.6	-2,756.1	-3,263.3	-3,935.6	-3,307.0	3,531	5,233	7,854
Mean	276	213	116	117	29.5	-88.9	-109	-127	-110	114	169	262
Max	638	1,110	849	611	482	296	161	171	183	534	514	556
Min	-104	-140	-374	-283	-194	-478	-348	-575	-339	-141	-384	-118

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2001 - 2011, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	587	380	312	236	166	84.1	54.9	16.4	279	437	511	617
Max	1,122	574	503	368	330	205	199	268	685	776	745	1,049
(WY)	(2006)	(2006)	(2009)	(2009)	(2006)	(2010)	(2010)	(2003)	(2002)	(2006)	(2008)	(2005)
Min	276	160	87.2	47.9	29.5	-88.9	-109	-127	-110	114	169	262
(WY)	(2011)	(2008)	(2008)	(2008)	(2011)	(2011)	(2011)	(2011)	(2011)	(2011)	(2011)	(2011)

02290878 BROAD RIVER NEAR THE CUTOFF, FL—Continued**SUMMARY STATISTICS**

	Water Year 2011		Water Years 2001 - 2011	
Annual total	26,346.43			
Annual mean	72.2		278	
Highest annual mean			416	2006
Lowest annual mean			72.2	2011
Highest daily mean	1,110	Nov 6	3,200	Oct 26, 2005
Lowest daily mean	-575	May 16	-2,420	Sep 5, 2004
Annual seven-day minimum	-355	May 11	-355	May 11, 2011
10 percent exceeds	381		738	
50 percent exceeds	56		215	
90 percent exceeds	-197		-111	



02290878 BROAD RIVER NEAR THE CUTOFF, FL—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

SALINITY (TOP): February 2001 to current year. See REMARKS.

SALINITY (BOTTOM): February 2001 to March 2008.

WATER TEMPERATURE (TOP): February 2001 to current year. See REMARKS.

WATER TEMPERATURE (BOTTOM): February 2001 to March 2008.

INSTRUMENTATION.--Water-quality monitor.

REMARKS.--Salinity (TOP) records rated excellent, except for Apr. 21 through May 11 and Sept. 17-30, rated good. Water temperature (TOP) records rated excellent. Salinity and water temperature sensors were located at - 2.1 ft NAVD 88 (TOP) and - 4.6 ft NAVD 88 (BOTTOM) until Mar. 12, 2008, when the top probe was lowered to mid position, -3.8 ft NAVD88, and the bottom probe was removed. During periods of missing record, values may be higher or lower than the listed extremes. Salinity and temperature 15 minute data are available in files of the U.S. Geological Survey. Data can also be accessed online at <http://sofia.usgs.gov/>. Daily values of salinity and water temperature are available online at <http://waterdata.usgs.gov/nwis>.

EXTREMES FOR PERIOD OF RECORD.--

SALINITY (TOP): Maximum recorded, 37.3 ppt June 15, 2011; minimum recorded, 0.2 ppt Oct. 7-9, 2001; Sept. 10, 2003; Oct. 13-16, 2003; Sept. 29, 2005 and Oct. 9, 10, 21, 2005. SALINITY (BOTTOM): Maximum recorded, 36.8 ppt May 22, 2001; minimum recorded, 0.2 ppt Oct. 7-9, 2001; Sept. 10, 11, 15, 2003; Oct. 13-16, 2003; Sept. 25, 29, 30, 2005 and Oct. 9, 10, 15, 16, 21, 2005. WATER TEMPERATURE (TOP): Maximum recorded, 34.5 °C Aug. 24, 2007; minimum recorded, 8.3 °C Jan. 11, 2010. WATER TEMPERATURE (BOTTOM): Maximum recorded, 34.2 °C Aug. 24, 2007; minimum recorded, 13.5 °C Jan. 25, 2003.

EXTREMES FOR CURRENT YEAR.--

SALINITY (TOP): Maximum recorded, 37.3 ppt June 15; minimum recorded, 0.6 ppt Oct. 4.

WATER TEMPERATURE (TOP): Maximum recorded, 33.3 °C Aug. 4; minimum recorded, 12.6 °C Dec. 16.

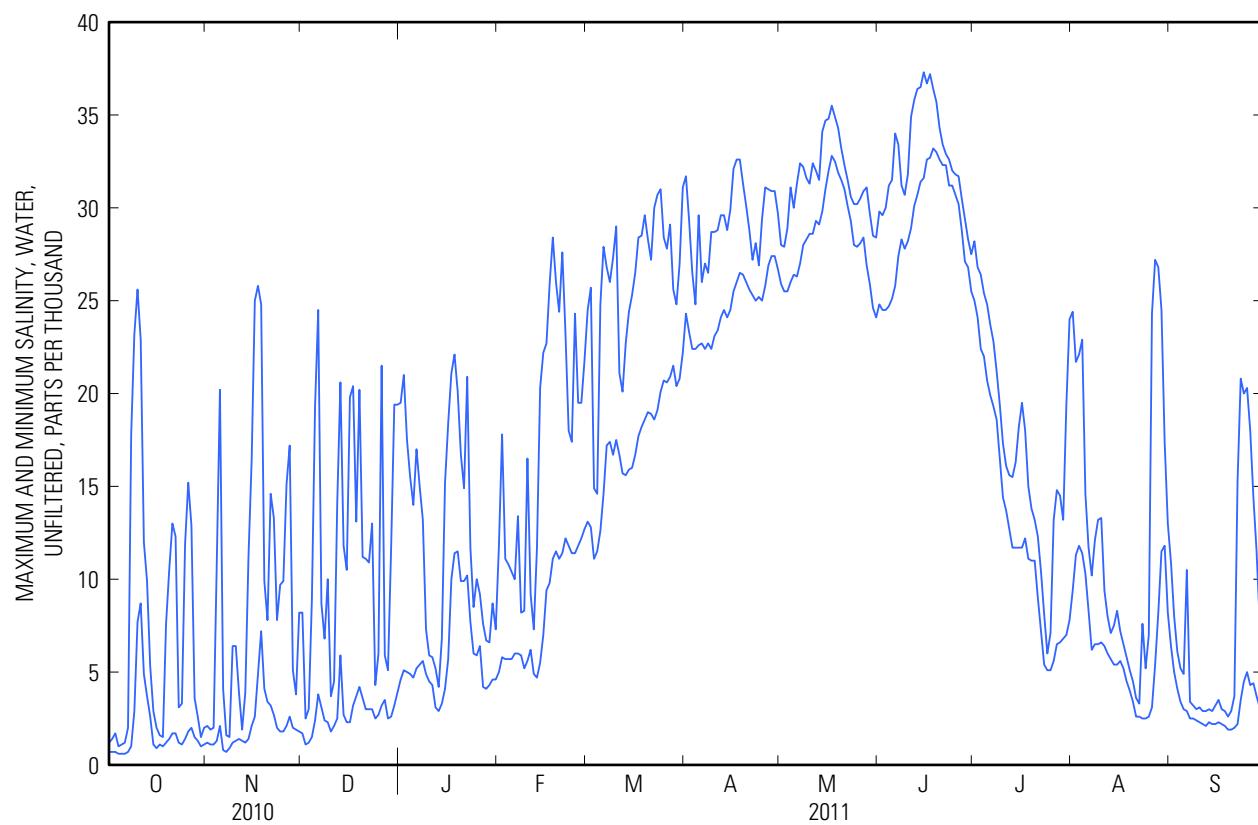
02290878 BROAD RIVER NEAR THE CUTOFF, FL—Continued
SALINITY, WATER, UNFILTERED, PARTS PER THOUSAND
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

Day	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min
	October		November		December		January		February		March	
1	1.2	0.7	2.1	1.2	8.2	1.7	19.5	4.6	11.8	5.0	24.5	13.1
2	1.4	0.7	1.9	1.1	2.5	1.1	21.0	5.1	17.8	5.8	25.7	12.8
3	1.7	0.7	2.0	1.1	3.0	1.2	17.5	5.0	11.1	5.7	14.9	11.1
4	1.0	0.6	10.9	1.3	8.9	1.5	15.5	4.9	10.8	5.7	14.6	11.5
5	1.1	0.6	20.2	2.1	19.3	2.4	14.0	4.7	10.4	5.7	24.8	12.6
6	1.2	0.6	4.1	0.8	24.5	3.8	17.0	5.2	10.0	6.0	27.9	14.6
7	2.0	0.7	1.6	0.7	8.7	3.1	15.0	5.4	13.4	6.0	26.8	17.2
8	17.8	1.0	1.5	0.9	6.8	2.4	13.2	5.6	8.2	5.9	26.0	17.4
9	23.2	2.9	6.4	1.2	10	2.3	7.3	4.9	8.3	5.2	27.3	16.7
10	25.6	7.7	6.4	1.3	3.7	1.8	5.9	4.5	16.5	5.6	29.0	17.5
11	22.9	8.7	3.9	1.4	4.5	2.1	5.8	4.3	9.2	6.2	21.1	16.7
12	12.0	4.9	1.9	1.3	14.1	2.5	5.2	3.1	7.3	4.9	20.1	15.7
13	9.9	3.7	3.9	1.2	20.6	5.9	4.2	2.9	11.7	4.7	22.7	15.6
14	5.3	2.6	11.2	1.4	11.8	2.7	6.8	3.3	20.3	5.5	24.4	15.9
15	2.9	1.1	16.4	2.1	10.5	2.3	15.2	4.1	22.2	7.0	25.3	16.0
16	2.0	0.9	25.0	2.6	19.8	2.3	18.4	5.7	22.7	9.4	26.5	16.7
17	1.6	1.1	25.8	4.9	20.4	3.2	21.1	10	25.9	9.8	28.4	17.7
18	1.5	1.0	24.8	7.2	13.1	3.7	22.1	11.4	28.4	11.1	28.5	18.2
19	7.6	1.2	9.9	4.1	20.2	4.2	20.1	11.5	26.0	11.5	29.6	18.6
20	10.5	1.4	7.8	3.4	11.2	3.6	16.7	9.9	24.4	11.1	28.3	19.0
21	13.0	1.7	14.6	3.2	11.1	3.0	14.9	9.9	27.6	11.4	27.2	18.9
22	12.3	1.7	13.3	2.7	10.9	3.0	20.9	10.2	23.2	12.2	30.0	18.6
23	3.1	1.2	7.8	2.0	13.0	3.0	11.7	7.7	18.0	11.8	30.7	19.1
24	3.3	1.1	9.7	1.8	4.3	2.5	8.5	6.0	17.4	11.4	31.0	20.1
25	11.9	1.4	9.9	1.8	6.0	2.7	10	5.9	24.3	11.4	28.4	20.7
26	15.2	1.8	15.1	2.1	21.5	3.2	9.2	6.4	19.5	11.8	27.8	20.6
27	12.9	2.0	17.2	2.6	5.9	3.5	7.6	4.2	19.5	12.2	29.1	20.9
28	3.6	1.5	5.1	2.0	5.1	2.5	6.7	4.1	21.8	12.7	25.6	21.5
29	2.6	1.3	3.8	1.9	11.7	2.6	6.6	4.3	---	---	24.8	20.4
30	1.5	1.0	8.2	1.8	19.4	3.2	8.7	4.6	---	---	27.0	20.8
31	2.0	1.1	---	---	19.4	3.9	7.3	4.6	---	---	31.1	22.2
Month	25.6	0.6	25.8	0.7	24.5	1.1	22.1	2.9	28.4	4.7	31.1	11.1

02290878 BROAD RIVER NEAR THE CUTOFF, FL—Continued**SALINITY, WATER, UNFILTERED, PARTS PER THOUSAND
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011**

Day	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min
	April		May		June		July		August		September	
1	31.7	24.3	28.0	25.9	29.8	24.8	28.2	25.0	24.4	9.4	10.9	6.4
2	29.3	23.3	27.9	25.5	29.6	24.5	26.8	24.1	21.7	11.3	8.0	5.0
3	26.5	22.4	28.9	25.5	30.0	24.5	26.4	22.4	22.1	11.8	6.1	4.1
4	24.8	22.4	31.1	26.0	31.2	24.7	25.4	22.0	22.9	11.4	5.2	3.4
5	29.6	22.6	30.0	26.4	31.5	25.1	24.8	20.7	14.6	10.3	4.9	3.0
6	26.0	22.7	31.3	26.3	34.0	25.8	23.7	19.9	11.7	8.3	10.5	2.9
7	27.0	22.4	32.4	27.0	33.4	27.4	22.8	19.3	10.2	6.2	3.4	2.5
8	26.5	22.7	32.2	28.0	31.2	28.3	21.2	18.6	12.1	6.5	3.2	2.5
9	28.7	22.4	31.6	28.3	30.7	27.8	19.4	16.5	13.2	6.5	3.0	2.4
10	28.7	23.1	31.3	28.6	31.8	28.2	17.3	14.4	13.3	6.6	3.1	2.3
11	28.8	23.4	32.4	28.6	34.9	28.9	16.1	13.7	9.4	6.4	2.9	2.2
12	29.6	24.1	32.0	29.3	35.8	30.1	15.6	12.7	8.0	6.0	2.9	2.1
13	29.6	24.5	31.5	29.1	36.4	30.7	15.5	11.7	7.1	5.7	3.0	2.3
14	28.8	24.1	34.1	29.8	36.5	31.4	16.3	11.7	7.5	5.4	2.9	2.2
15	29.9	24.5	34.7	31.0	37.3	31.6	18.2	11.7	8.3	5.4	3.2	2.2
16	32.1	25.5	34.8	32.0	36.7	32.6	19.5	11.7	7.2	5.6	3.5	2.3
17	32.6	26.0	35.5	32.8	37.2	32.7	18.0	12.2	6.5	5.2	3.0	2.2
18	32.6	26.5	34.9	32.5	36.4	33.2	15.0	11.1	5.8	4.5	2.9	2.1
19	31.3	26.4	34.3	31.9	35.7	33.0	13.8	11.0	5.1	4.0	2.6	1.9
20	30.1	26.0	33.2	31.5	34.3	32.6	13.2	11.0	4.5	3.4	2.9	1.9
21	28.8	25.6	32.3	31.0	33.4	32.3	12.3	9.0	3.6	2.6	3.7	2.0
22	27.2	25.3	31.5	30.1	32.9	32.3	10.4	7.2	3.3	2.6	15.3	2.2
23	28.1	25.0	30.6	29.3	32.6	31.2	8.1	5.4	7.6	2.5	20.8	3.5
24	26.9	25.2	30.2	28.0	32.0	31.2	6.0	5.1	5.2	2.5	20.0	4.5
25	29.4	25.0	30.2	27.9	31.8	30.7	7.1	5.1	7.0	2.6	20.3	5.0
26	31.1	25.8	30.5	28.1	31.7	30.2	13.2	5.6	24.3	3.1	18.0	4.3
27	31.0	26.9	30.9	28.4	30.5	28.8	14.8	6.5	27.2	5.4	14.4	4.4
28	30.9	27.4	31.1	26.9	29.4	27.1	14.5	6.6	26.8	8.2	11.5	3.7
29	30.9	27.4	29.7	25.9	28.3	26.8	13.2	6.8	24.5	11.5	7.6	3.1
30	29.7	26.7	28.5	24.6	27.5	25.5	19.4	7.0	17.4	11.8	6.5	2.6
31	---	---	28.4	24.1	---	---	24.0	7.8	13.0	8.2	---	---
Month	32.6	22.4	35.5	24.1	37.3	24.5	28.2	5.1	27.2	2.5	20.8	1.9

	Max	Min
Year	37.3	0.6

02290878 BROAD RIVER NEAR THE CUTOFF, FL—Continued

02290878 BROAD RIVER NEAR THE CUTOFF, FL—Continued
**TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011**

Day	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min
	October		November		December		January		February		March	
1	28.8	27.4	28.2	27.6	24.8	24.1	18.1	16.2	20.1	18.5	24.8	23.6
2	29.0	27.5	27.9	26.6	24.2	20.6	19.0	17.1	21.3	19.1	24.9	23.7
3	29.5	27.5	27.2	26.0	21.8	18.9	19.9	17.9	22.4	20.2	24.4	22.7
4	28.6	26.9	26.9	25.9	20.3	18.4	20.7	18.7	23.0	21.0	23.1	21.7
5	27.6	25.6	25.9	23.7	19.8	17.8	21.0	19.4	23.3	21.7	22.6	21.3
6	26.6	24.9	23.9	21.2	19.4	17.4	21.2	19.8	23.5	22.1	22.6	21.2
7	25.6	23.9	21.5	18.8	17.8	15.8	20.7	19.5	24.2	22.7	23.0	21.4
8	25.2	23.8	19.8	18.6	16.8	15.1	20.2	19.2	23.7	22.2	22.9	21.7
9	25.9	23.4	20.1	18.9	16.6	14.6	20.0	18.9	22.8	21.0	23.6	22.3
10	26.8	24.3	20.9	19.2	15.6	14.3	20.2	19.1	23.5	22.2	23.7	22.6
11	26.6	24.7	21.9	19.8	16.5	15.0	21.7	19.7	23.5	22.3	22.7	20.9
12	26.3	25.5	22.3	20.8	17.8	16.0	21.1	19.4	22.3	20.1	22.0	20.0
13	26.9	25.2	22.3	21.2	17.6	15.8	19.4	16.4	20.1	17.4	22.7	20.2
14	26.4	25.9	22.8	21.5	15.9	13.8	17.2	15.5	20.1	17.6	22.9	21.0
15	26.9	25.3	23.6	21.9	14.4	12.8	17.5	15.7	19.9	17.4	22.9	21.1
16	26.4	25.1	24.2	22.2	14.9	12.6	18.1	15.7	20.0	17.6	22.9	21.1
17	26.5	24.9	26.4	22.1	16.4	13.1	17.7	16.6	20.0	18.0	23.7	21.1
18	26.5	24.7	24.4	23.2	16.5	14.4	19.3	16.8	20.8	18.3	23.7	22.0
19	26.6	25.2	24.1	22.2	17.4	15.2	20.7	18.5	21.3	19.1	23.5	21.7
20	27.0	25.8	23.0	22.2	17.4	16.3	21.8	19.4	21.7	20.1	23.6	22.2
21	27.2	25.8	23.2	22.2	17.7	16.2	22.3	20.5	22.4	20.5	23.8	22.6
22	26.9	26.0	23.2	22.4	18.0	16.5	21.8	19.4	23.3	21.2	23.9	22.7
23	26.8	26.0	23.3	22.4	18.8	17.2	19.5	17.7	24.7	22.5	24.5	22.7
24	26.7	26.1	23.6	22.4	18.5	17.1	18.7	18.0	24.5	23.2	25.3	23.2
25	27.1	26.0	23.7	22.4	18.7	17.3	20.1	18.4	24.6	22.8	26.2	23.8
26	27.2	26.2	23.8	22.9	18.9	17.1	20.2	19.3	25.9	22.9	27.4	24.6
27	28.1	26.4	24.6	23.5	17.2	15.6	19.8	18.6	24.9	22.9	27.4	25.0
28	28.5	27.1	24.4	23.6	15.6	14.5	19.1	17.6	24.7	23.2	27.5	25.6
29	29.2	27.4	24.9	23.7	15.6	13.7	19.0	16.6	---	---	27.5	25.4
30	28.3	27.6	25.2	24.1	16.2	14.8	19.1	17.4	---	---	27.7	25.8
31	29.0	27.1	---	---	17.5	15.5	19.4	17.8	---	---	27.7	26.5
Month	29.5	23.4	28.2	18.6	24.8	12.6	22.3	15.5	25.9	17.4	27.7	20.0

02290878 BROAD RIVER NEAR THE CUTOFF, FL—Continued
**TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011**

Day	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min
	April		May		June		July		August		September	
1	27.8	26.5	28.7	26.6	28.8	26.9	29.0	28.0	31.3	30.0	28.9	27.8
2	27.9	25.6	28.5	26.9	28.7	27.5	29.0	28.3	31.7	29.7	28.9	27.7
3	27.7	26.5	28.3	26.8	28.5	27.3	28.9	28.1	32.5	30.0	29.4	27.9
4	27.5	26.3	28.2	27.2	28.4	27.4	28.9	28.2	33.3	30.5	29.6	28.5
5	27.4	26.6	28.3	27.3	28.5	27.5	29.4	28.2	32.5	30.9	30.5	29.0
6	26.8	25.6	27.8	26.9	29.5	27.4	28.8	28.0	32.4	30.8	31.3	29.8
7	26.8	25.6	28.2	26.9	29.6	27.6	28.2	27.2	32.1	30.5	30.8	29.5
8	27.0	26.0	29.2	27.5	29.0	27.8	29.0	27.0	31.1	29.7	31.3	29.9
9	27.5	25.9	29.6	27.7	28.0	27.4	29.6	28.2	30.4	29.3	31.8	30.2
10	28.7	26.4	30.1	28.0	28.8	26.9	31.7	28.8	30.3	28.9	31.3	30.5
11	28.9	26.9	30.6	28.4	30.3	27.5	30.8	29.4	30.1	28.7	30.8	29.9
12	28.8	27.1	30.6	28.9	30.1	28.5	30.2	29.0	29.5	28.9	30.7	30.1
13	29.1	27.1	30.4	28.3	30.6	28.7	30.0	28.8	30.5	28.6	30.7	30.0
14	28.4	26.4	29.5	28.4	31.0	29.6	30.5	29.2	30.6	29.6	30.8	29.7
15	28.6	26.8	28.8	27.3	30.8	29.9	30.8	29.9	31.1	29.9	30.8	29.9
16	28.6	27.0	28.0	26.8	30.8	29.7	31.2	30.0	31.3	30.4	31.2	29.8
17	28.7	27.3	27.4	26.2	31.0	30.0	31.4	30.1	32.1	30.5	31.2	29.9
18	28.7	27.4	27.8	26.3	31.2	30.1	31.0	29.8	31.3	30.0	30.7	29.7
19	28.4	27.3	28.6	27.1	31.2	30.0	31.8	30.0	30.1	29.4	30.5	29.8
20	28.1	27.1	29.2	28.1	30.8	30.1	32.4	30.3	30.4	29.1	30.6	29.5
21	27.9	26.7	29.5	28.0	30.8	29.7	32.1	30.3	30.6	29.6	30.8	29.4
22	27.7	26.5	30.3	28.6	30.6	29.5	31.1	29.6	32.1	29.9	30.6	29.6
23	27.6	26.3	29.7	28.5	30.9	29.4	31.0	29.1	30.9	29.6	31.3	29.2
24	27.9	26.3	30.1	27.9	31.4	29.6	31.5	29.8	31.1	29.2	30.7	29.0
25	28.1	26.3	29.4	28.0	32.0	30.0	33.0	30.4	31.2	29.2	30.4	29.2
26	28.4	26.6	29.1	27.6	31.8	30.2	32.4	30.6	30.9	29.8	29.5	28.1
27	29.3	26.9	29.9	27.8	30.9	29.7	31.8	30.5	30.8	29.6	28.7	27.6
28	29.8	27.8	29.7	28.6	30.0	28.4	31.7	29.9	30.6	29.4	29.2	27.9
29	30.2	28.7	29.3	28.0	29.5	28.5	31.8	30.0	30.1	28.3	29.7	28.2
30	29.7	27.8	29.2	27.1	28.8	27.5	31.6	30.4	29.1	28.3	30.3	28.3
31	---	---	29.1	27.3	---	---	31.2	30.4	29.1	27.6	---	---
Month	30.2	25.6	30.6	26.2	32.0	26.9	33.0	27.0	33.3	27.6	31.8	27.6

	Max	Min
Year	33.3	12.6

02290878 BROAD RIVER NEAR THE CUTOFF, FL—Continued

